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> Technology Blogs by Members > Eclipse ADT & SAP NetWeaver AS ABAP Developer Edit...

Eclipse ADT & SAP NetWeaver AS ABAP Developer Edition Connection



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Active Contributor

2022 Nov 16 7:23 AM



6 Kudos

4,145 Views

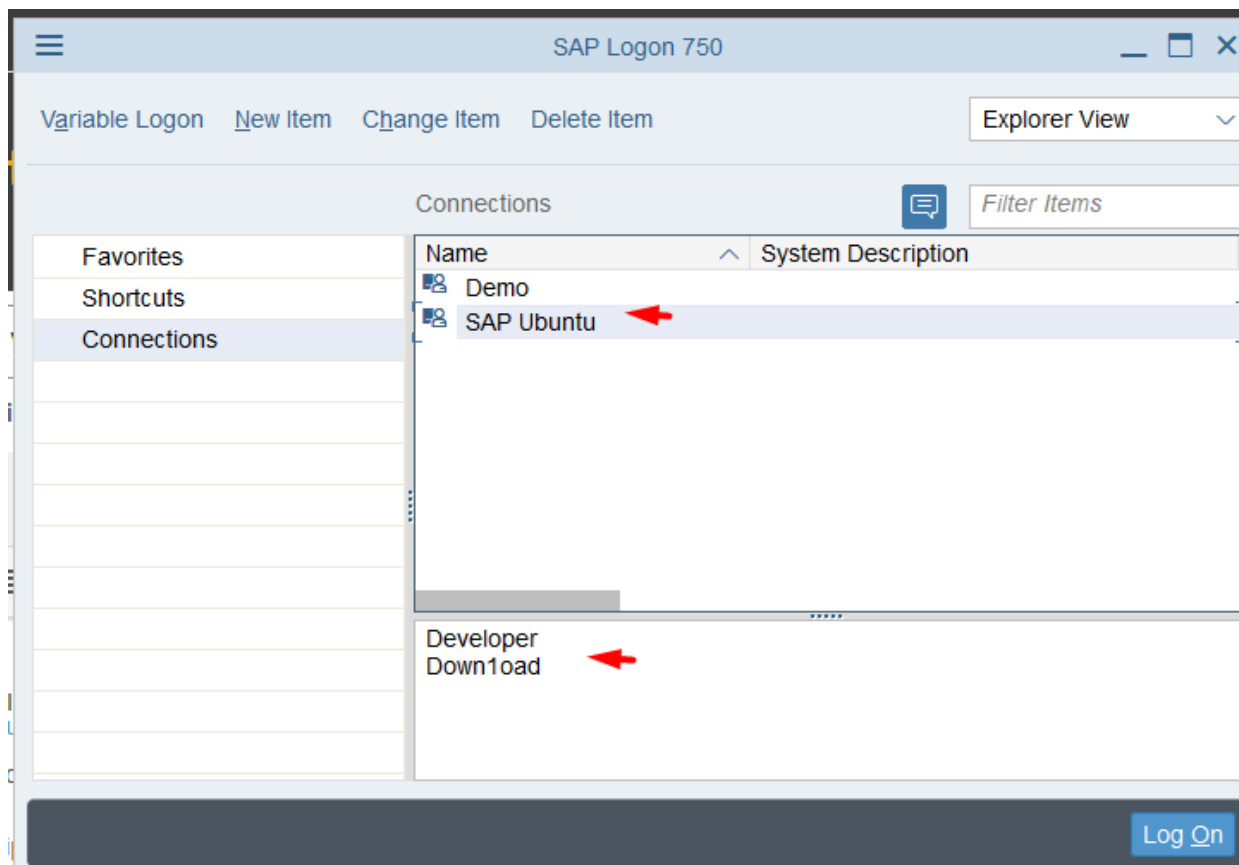
Hi,

In this post, I would like to show how to connect Eclipse ADT to SAP NetWeaver AS ABAP Developer Edition 7.52 SP04 on Ubuntu, which is running on Oracle Virtual box.

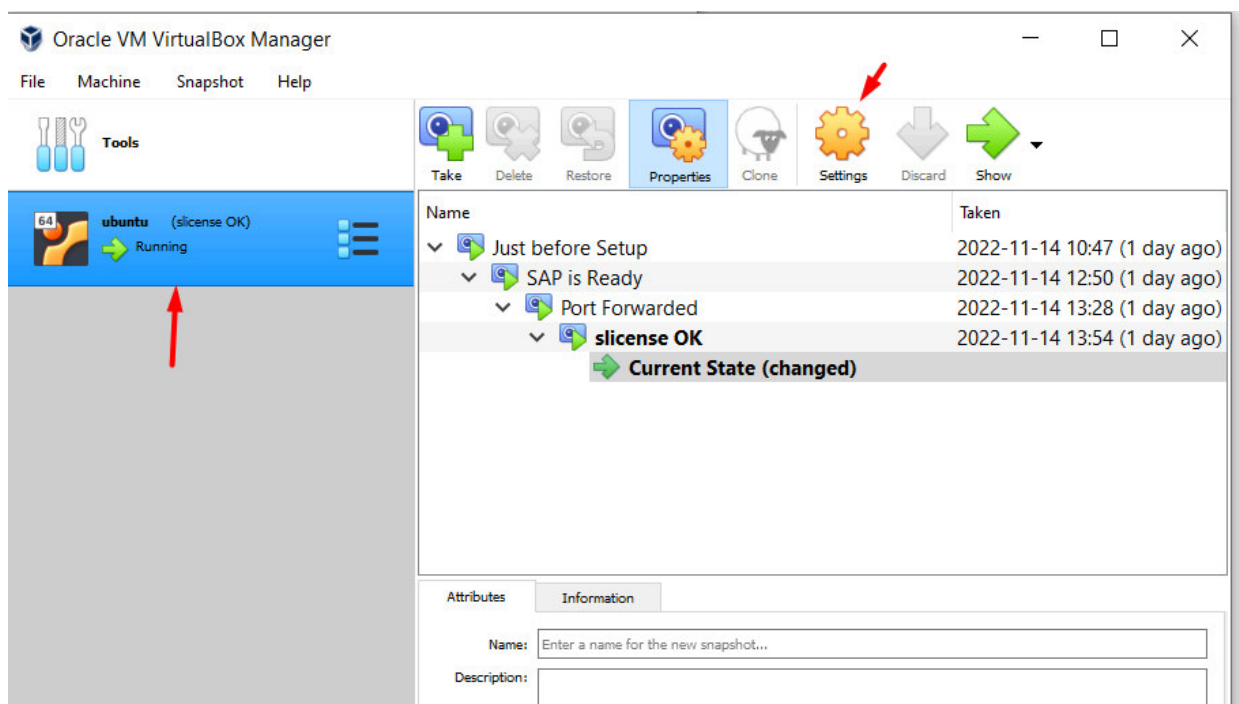
For Eclipse ADT installation you check that link. And for Abap Developer Edition installation have a look at that blog.post.

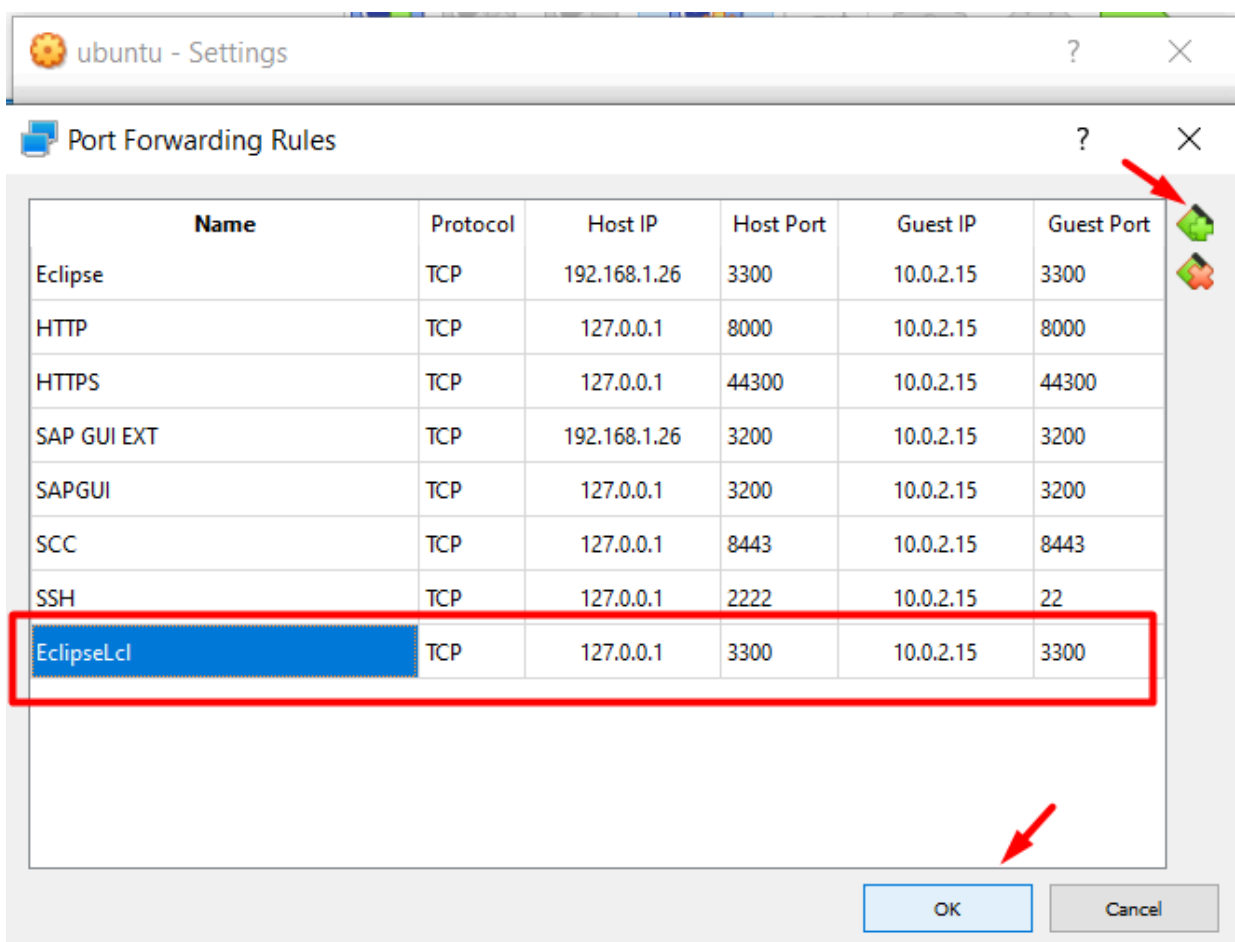
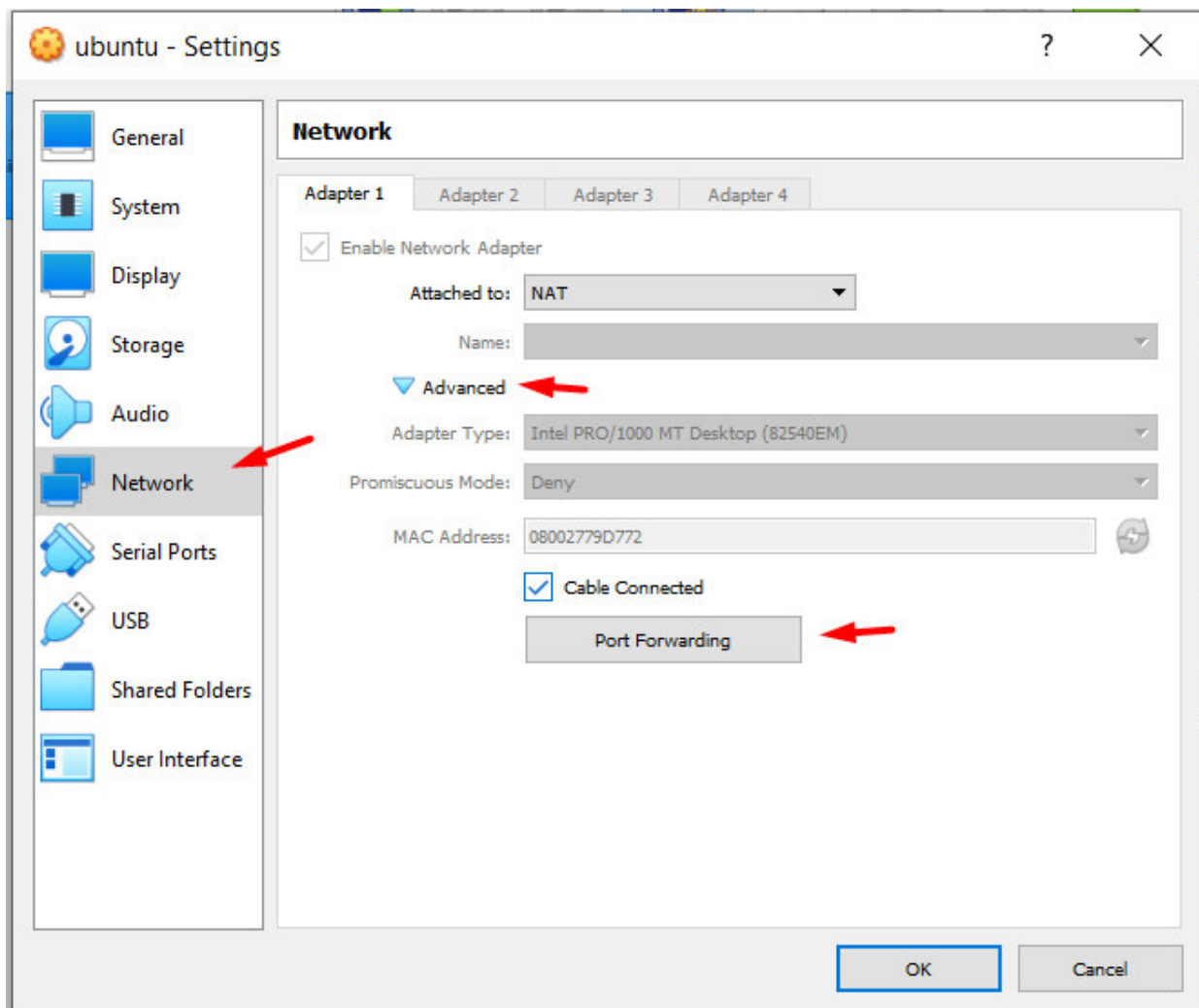
With steps below you can connect to SAP from Eclipse;

Step 1 - Check your SAP GUI connection



Step 2 - Virtual Box 3300 port forwarding for local ip address 127.0.0.1

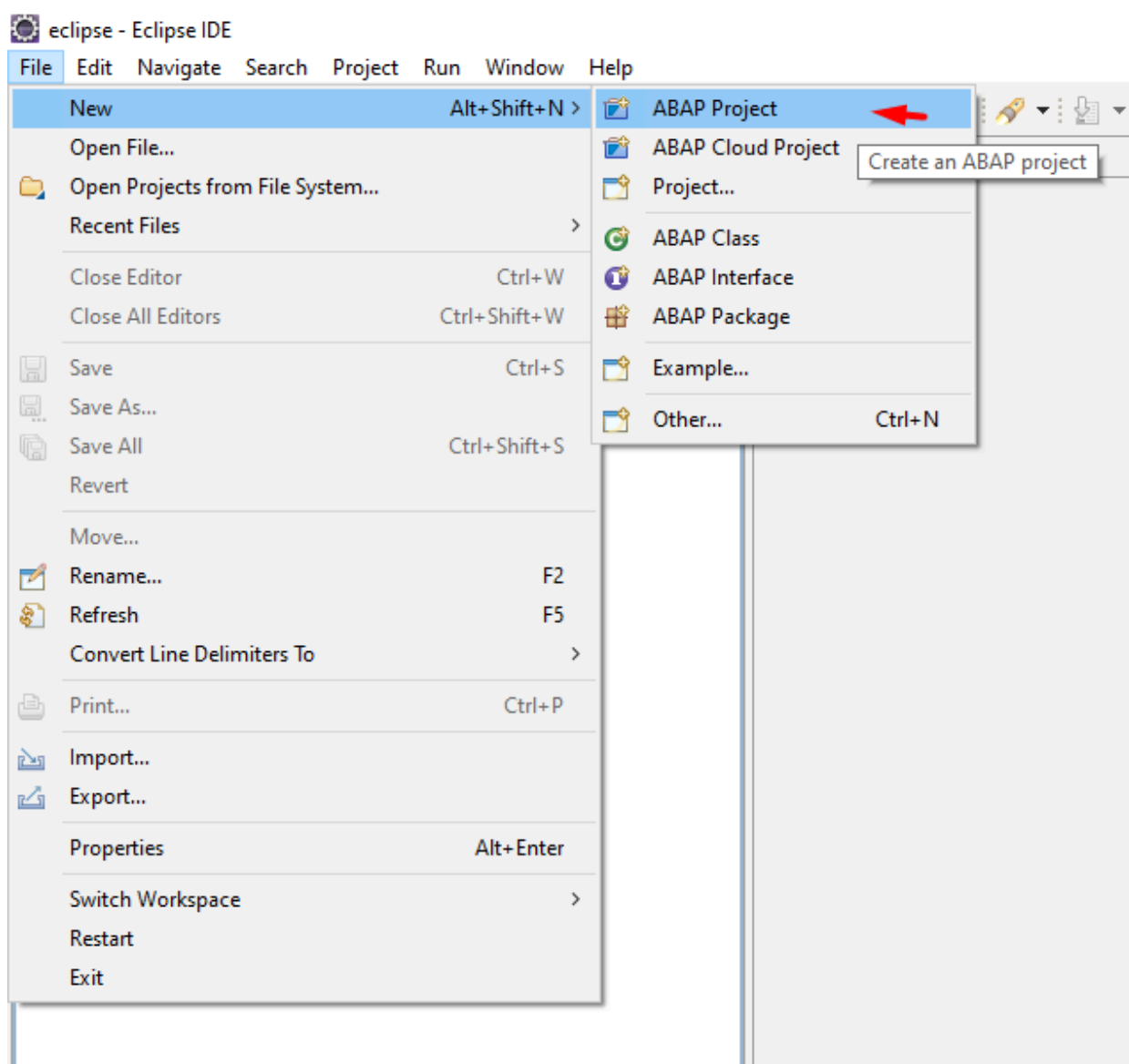


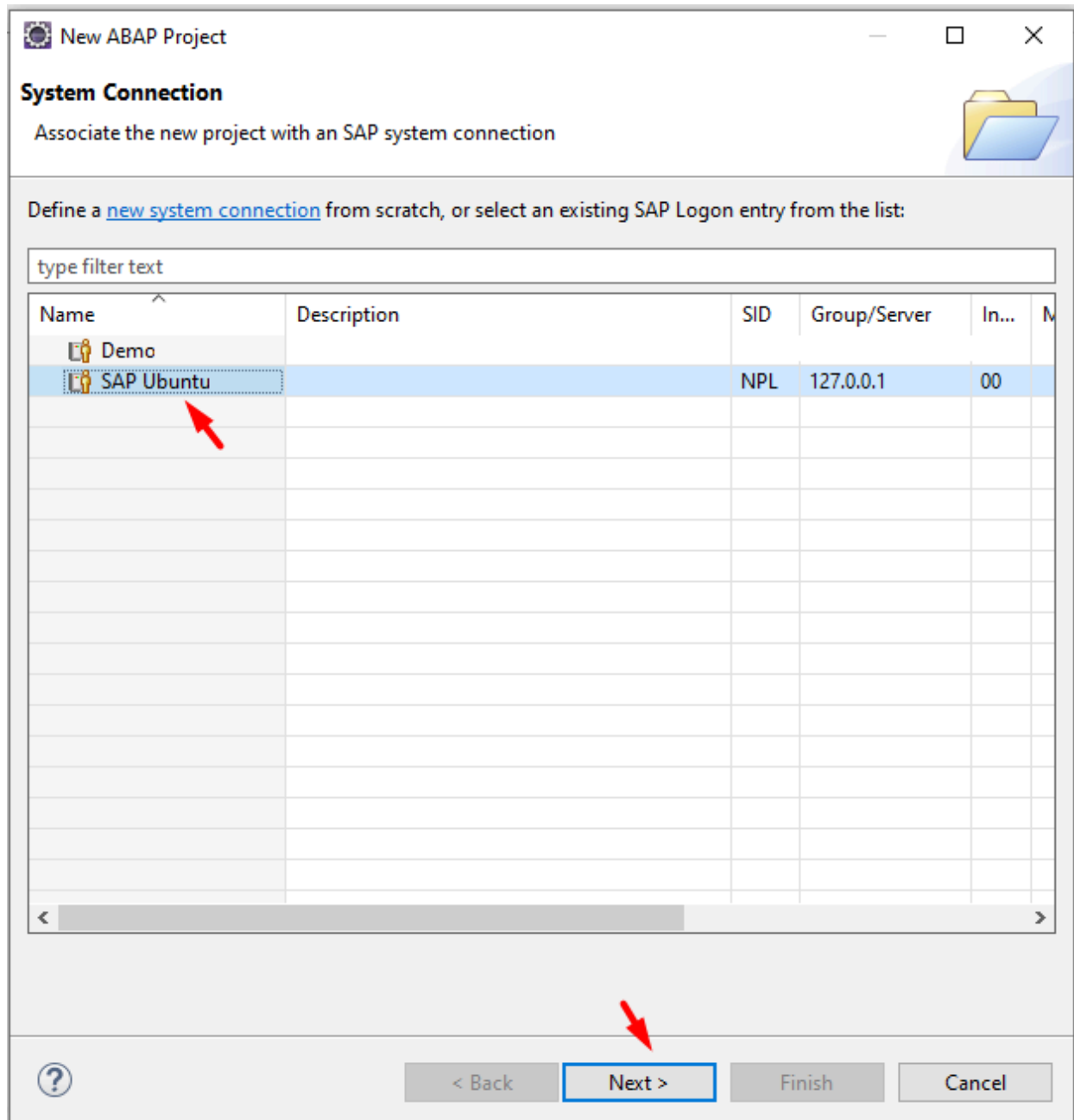



Note: First line Eclipse entry is to connect from any other machine in my network to Ubuntu/Sap. 192.168.1.26 is Windows host ip given by Adsl router. Therefore any machine which is connected to same router can access SAP with that simple port forwarding.

Last entry **EclipseLcl** is for connection from same host, local connection, to Ubuntu/Sap.


Step 3 - Connecting to NPL from Eclipse.





 **New ABAP Project** — □ ×

Connection Settings


System connection configuration for the new ABAP project 

Connection Parameters

System ID: *	<input type="text" value="NPL"/>
Connection Type:	Custom Application Server ▼
Message Server: *	<input type="text"/>
Group: *	<input type="text"/>
Message Server Port:	<input type="text"/>
Application Server: *	127.0.0.1
Instance Number: *	00
RFC Gateway Server:	<input type="text"/>
RFC Gateway Server Port:	<input type="text"/>
SAProuter String:	<input type="text"/>

Secure Network Settings

<input type="checkbox"/> Activate Secure Network Communication (SNC)	
SNC Level:	<input type="text"/>
SNC Name: *	<input type="text"/>
Single Sign-On (SSO):	Disabled ▼

 < Back **Next >** Finish Cancel

New ABAP Project

Login to System

System ID: NPL

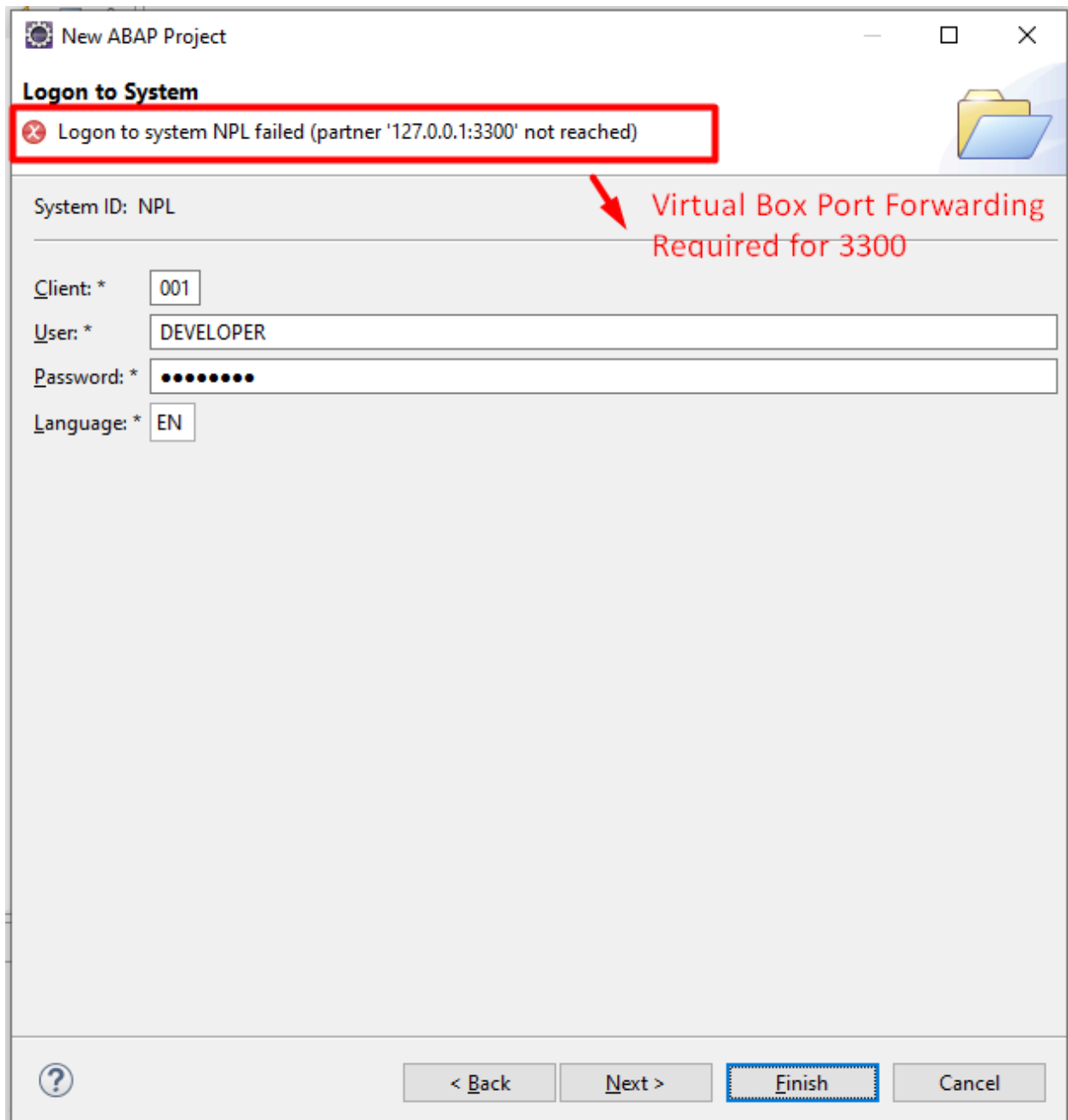
Client: * 001

User: * DEVELOPER

Password: * Download

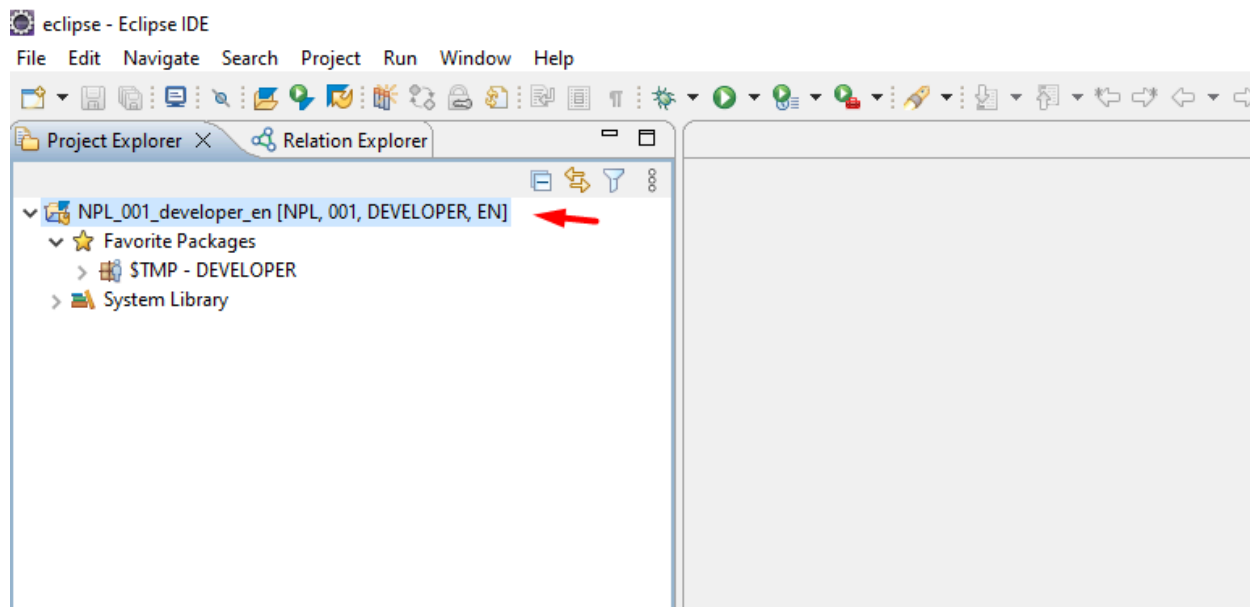
Language: * EN

? < Back Next > Finish Cancel



After clicking Finish, If you see that error, that means Step 2, port forwarding is not working. That might be because of wrong ip address or UFW is not disabled on Ubuntu.

Otherwise you should see following screen.



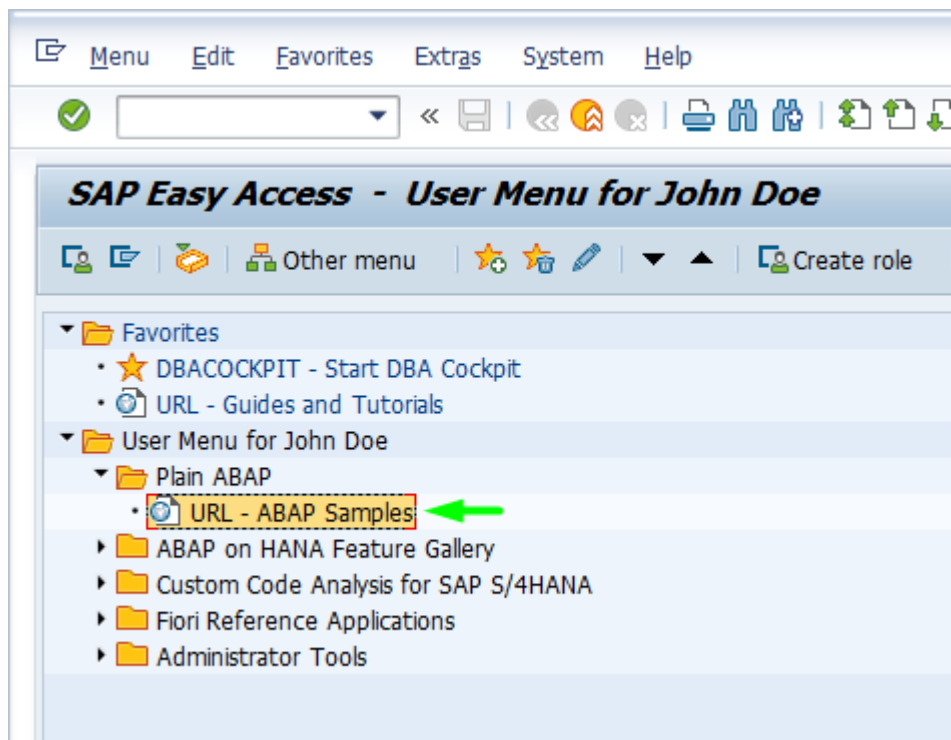
That is all. Now you can start working on SAP dev edition with eclipse.

If you will be doing RAP development, you will need to access SAP web server and that will require you to add SAP Ubuntu's ip and computer name to windows

C:\Windows\System32\drivers\etc\hosts file or you need to change dns name to ip of 127.0.0.1. And don't forget to do required port forwardings.

Let's see that with an example.

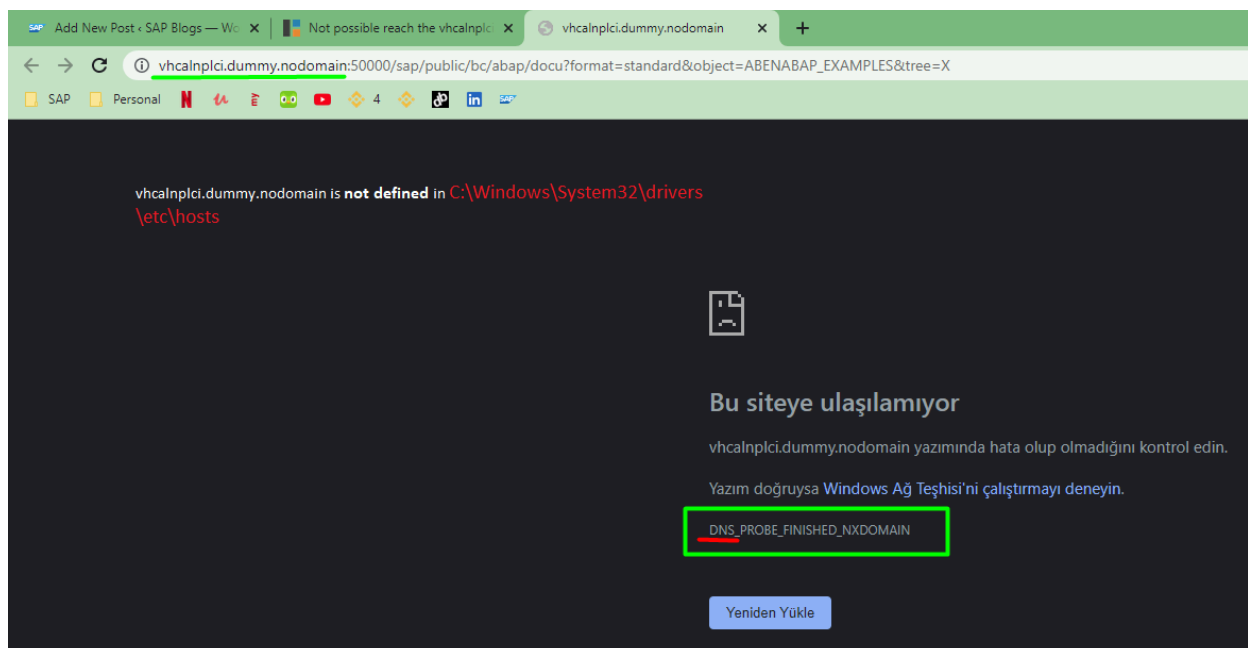
if you try to open Plain Abap examples from SAP GUI,



Tries to open,

http://vhcalnplci.dummy.nodomain:50000/sap/public/bc/abap/docu?format=standard&object=ABENABAP_EXAMP...

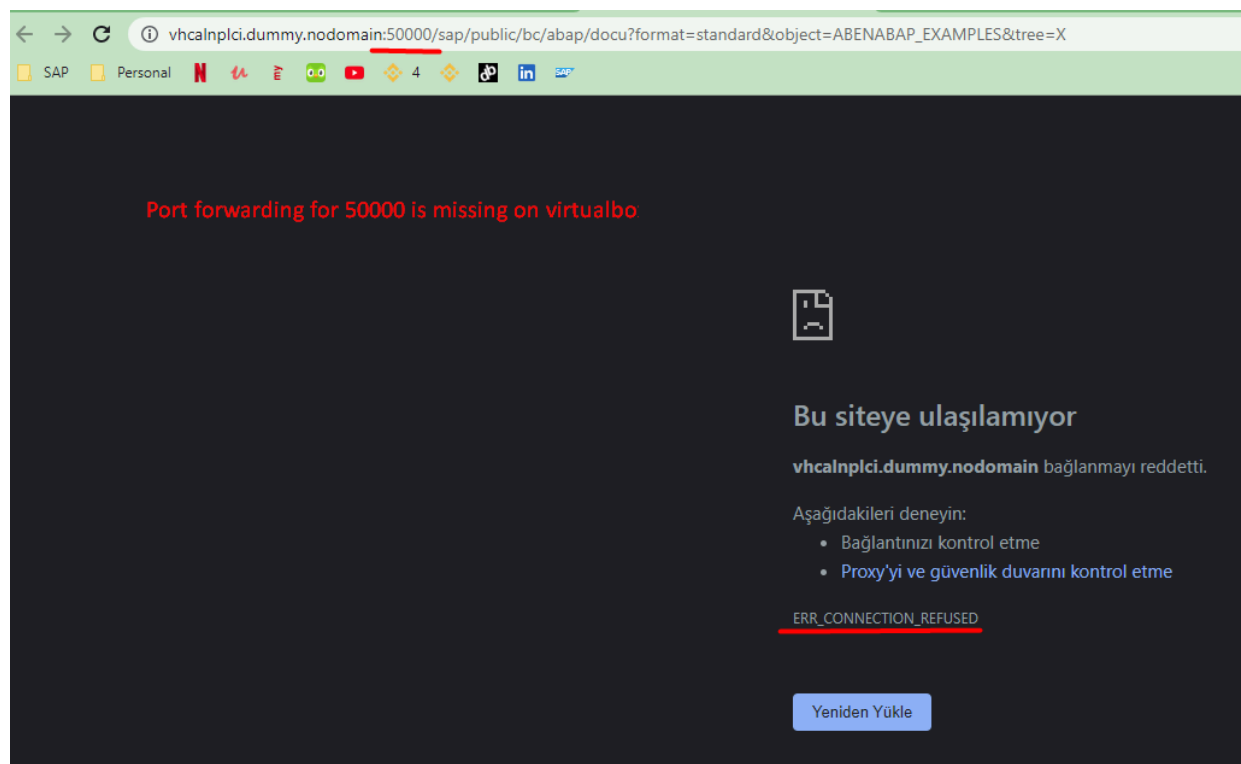
But vhcalnplci.dummy.nodomain means nothing to Windows, it does not know how to solve that name to ip address. Therefore we get an DNS error.



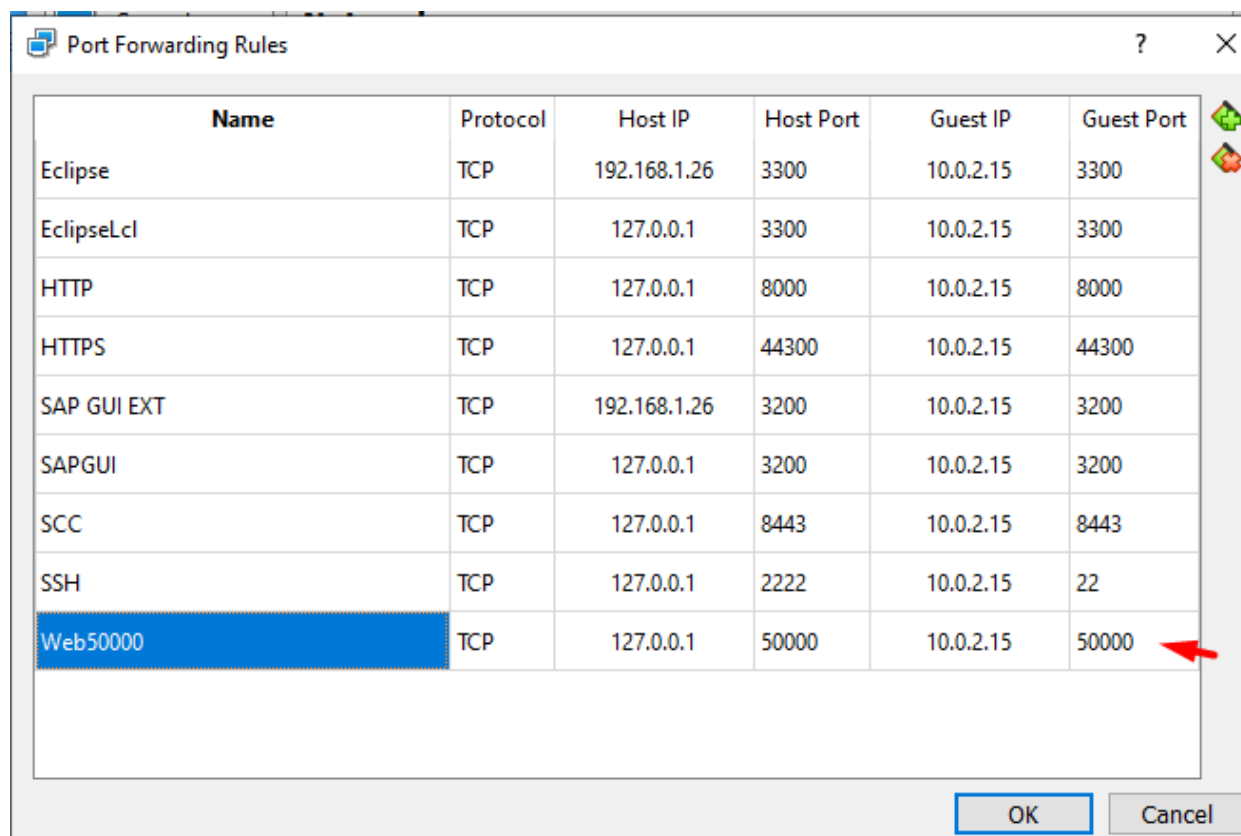
After adding that exact name and ip to C:\Windows\System32\drivers\etc\hosts

```
127.0.0.1 vhcalnplci.dummy.nodomain vhcalnplci
```

Try again, and that time we get port forwarding error. This time we don't get DNS error.



To solve that we need to do port forwarding on Virtualbox. Please check step2 as reference to add 50000 port.



Try to open url again and it will work just fine.

The screenshot shows a web browser window with the following details:

- Browser Tabs:** 'SAP - Add New Post - SAP Blogs - Wi...', 'ABAP Examples - ABAP Keyword', and a plus sign for more tabs.
- Address Bar:** 'Güvenli değil | vhcalnplci.dummy.nodomain:50000/sap/public/bc/abap/docu?format=standard&object=ABENABAP_EXAMPLES&tree=X'
- Page Header:** 'SAP' logo and 'Add New Post' button.
- Search Bar:** A search input field with a 'Search' button.
- Contents Sidebar:**
 - ABAP - Keyword Documentation
 - ABAP - Overview
 - ABAP - Dictionary
 - ABAP - Reference
 - ABAP - Quick Reference
 - ABAP - Release-Specific Changes
 - ABAP Programming Guidelines
 - ABAP - Security Notes
 - ABAP Glossary
 - ABAP Index
 - ABAP Subject Directory
 - ABAP Examples
- Main Content Area:**
 - Start page → ABAP - Schlüsselwortdokumentation →
 - ABAP Examples**
 - 2 A B C D E F G H I J L M N O P Q R S T U V W X
 - 2**
 - [2048 Game](#)
 - A**
 - [ABAP as HTTP Client](#)
 - [ABAP CDS - Joins of Associations](#)
 - [ABAP CDS - Annotation Array](#)
 - [ABAP CDS - Evaluation of Annotations](#)
 - [ABAP Objects - Classes](#)
 - [ABAP Objects - Events](#)
 - [ABAP Objects - Friendship](#)
 - [ABAP Objects - Inheritance](#)
 - [ABAP Objects - Interfaces](#)
 - [ABAP Objects - OO Transaction](#)
 - [ABAP Objects - Overview](#)
 - [Access to the MIME Repository Using ICF](#)
 - [Accessing the MIME Repository from HTTP Service](#)
 - [ADBC - Bulk Access](#)
 - [ADBC - DDL and DML](#)
 - [ADBC - Parameter Binding](#)
 - [ADBC - Prepared Statement](#)
 - [ADBC - Query](#)
 - [ADBC - Stored Procedure](#)
 - [ADF - Creating and Using an ABAP Daemon](#)
 - [ADF - Mini ABAP Daemon](#)

I hope that becomes a good reference for you. In same way, you can solve DNS name and port forwarding issues.

Thanks for reading.

Related links

Abap Developer Edition Installation with Video Tutorial ->

[target= blankhttps://blogs.sap.com/2022/11/14/sap-netweaver-as-abap-developer-edition-installation-...](https://blogs.sap.com/2022/11/14/sap-netweaver-as-abap-developer-edition-installation-...)

Eclipse ADT Installation -> [target= blankhttps://tools.hana.ondemand.com/#abap](https://tools.hana.ondemand.com/#abap)

Abap Academy -> [target= blankhttps://abapacademy.com/blog/not-possible-reach-the-vhcalnplci-dummy-nodomain-or-vhcal...](https://abapacademy.com/blog/not-possible-reach-the-vhcalnplci-dummy-nodomain-or-vhcal...)

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